

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

(For all sources except PSD and true minor sources)

Completed by:

GENERAL INFORMATION:

Name: **Wilco Refining, LLC**  
Address: **Rt. 738, Albany, KY 42602**  
Date application received: **May 29, 2001**  
SIC/Source description: **2911**  
EIS #: **21-053-00012**  
Application log number: **53856**  
Permit number: **F-01-042**

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source  
☐ Source subject to 112(r)  
☒ Source applied for federally enforceable emissions cap  
☐ Source provided terms for alternative operating scenarios  
☐ Source subject to a MACT standard  
☐ Source requested case-by-case 112(g) or (j) determination  
☐ Application proposes new control technology  
☐ Certified by responsible official  
☒ Diagrams or drawings included  
☐ Confidential business information (CBI) submitted in application  
☐ Pollution Prevention Measures  
☐ Area is non-attainment (list pollutants):

#### EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
VOC	90.4	90.4
NO <sub>x</sub>	20.2	20.2
CO	3.7	3.7
SO <sub>2</sub>	6.5	6.5
PM	1.4	3.66

#### SOURCE PROCESS DESCRIPTION:

Wilco Refining, LLC is a petroleum refinery that has accepted permit limits and conditions to make them a synthetic minor. From these permit limits, the VOC PTE is approximately 90 tons per year.

Crude oil is transferred to one of two large storage tanks that will have control devices in place per a compliance schedule (180 days after operation begins). The crude oil is heated to a vapor and fed to a distillation tower where fractions of petroleum distillates, gasoline, kerosene, diesel and tar are produced and pumped to separate storage tanks. These storage tanks also have control devices of either an internal floating roof or connected to a blowdown device. The blowdown device and displaced air during the truck loading operation is fed to a flare.

The process heaters use only natural gas or propane; process gas is not burned. There are no cracking operations or sulfur recovery units. There is a sulfur removal unit, two towers in series, just prior to the distillation tower. The sulfur removal towers contain metal shavings which are supposed to remove sulfur, but this is an unproven technology and emission calculations are not clear, possibly non-existent.

Wilco Refining, LLC has not been in operation for several years. The facility was recently sold and is now a privately owned company that also owns an oil-drilling company.

#### EMISSION AND OPERATING CAPS DESCRIPTION:

Wilco Refining, LLC has requested a synthetic minor permit based on the total amount of crude oil that can be processed. The crude oil storage tank pump and process heater limits the process feed rate to only 45.66 million gallons of crude oil per year. Based on this amount, their potential to emit VOCs comes to 90.4 tons per year.